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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/045,207	10/22/2001	Phillip Hua-Kuan Wang	11001-2-US	2248
7590 11/15/2004 Alfred N. Muartori 3724 Cora Drive		,	EXAMINER	
			HUG, E	HUG, ERIC J
Winston Salem	, NC 27127		ART UNIT	PAPER NUMBER
			1731	
			DATE MAILED: 11/15/2004	- 1

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
	Office Action Summary	10/045,207	WANG, PHILLIP HUA-KUAN			
	omoc Action Gammary	Examiner	Art Unit			
	The MAILING DATE of this areas in the	Eric Hug	1731			
Period fe	The MAILING DATE of this communication apports.	pears on the cover sheet	t with the correspondence address			
- Exte after - If the - If NO - Failu Any	MAILING DATE OF THIS COMMUNICATION. Ansions of time may be available under the provisions of 37 CFR 1.1 If SIX (6) MONTHS from the mailing date of this communication. If Property of the property specified above is less than thirty (30) days, a reply operiod for reply specified above, the maximum statutory period or reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may within the statutory minimum of will expire SIX (6) N	y a reply be timely filed thirty (30) days will be considered timely. AONTHS from the mailing date of this communication.			
Status						
1)⊠	Responsive to communication(s) filed on 30 A	uaust 2004.				
2a)□	<u> </u>					
3)□						
	closed in accordance with the practice under E	x parte Quayle, 1935 C	C.D. 11, 453 O.G. 213.			
Dispositi	ion of Claims	- -				
	Claim(s) <u>1-4</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdraw Claim(s) 4 is/are allowed.	vn trom consideration.				
	Claim(s) <u>4</u> is/are allowed. Claim(s) <u>1 and 2</u> is/are rejected.					
	Claim(s) 3 is/are objected to.					
		and the second second				
<u>ا</u> رن	Claim(s) are subject to restriction and/or	election requirement.				
Applicati	on Papers					
9)[The specification is objected to by the Examiner	•.				
	The drawing(s) filed on 22 October 2001 is/are:		objected to by the Examiner			
	Applicant may not request that any objection to the o					
	Replacement drawing sheet(s) including the correction					
	The oath or declaration is objected to by the Exa					
	nder 35 U.S.C. § 119					
	•					
	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
•	☐ All b)☐ Some * c)☐ None of:					
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priori		n received in this National Stage			
* 0	application from the International Bureau					
" S	ee the attached detailed Office action for a list of	of the certified copies no	t received.			
Attachment	(s)					
	e of References Cited (PTO-892)	4) Interview	Summary (PTO-413)			
2) 🔲 Notice	of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	o(s)/Mail Date			
3) ∐ Inform Paper	ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date		Informal Patent Application (PTO-152)			
S. Patent and Tra		6) Other:	·			
TOL-326 (Re		ion Summary	Part of Paper No./Mail Date -			

Application/Control Number: 10/045,207

Art Unit: 1731

3

Response to Amendment

The following is in response to the amendment filed on August 30, 2004.

Claim Rejections - 35 USC § 102

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

1. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Esser et al (US 4,994,679).

Esser discloses a method of measuring the eccentricity of a waveguide (optical fiber). Waveguide 7 (via connector pin 5 and mount 6) is clamped onto rotary table 2 having a mechanical axis of rotation 10. The waveguide is mounted so that its longitudinal axis 17 is coaxial with the mechanical axis of rotation. An optical transmitter is coupled to the lower end of waveguide 7. A sensor waveguide 11 which leads to an optical receiver is positioned above the upper end of waveguide 7. Through movement of waveguide 7, the optical axes of both waveguides are aligned. The optical axis of waveguide 7 may not be same as the longitudinal axis, and therefore not be aligned with the mechanical axis of rotation. When such a waveguide 7 is rotated about its longitudinal axis during optical alignment, the optical axis moves over a surface of a cone, as shown in Figure 3. By adjusting the angle between the longitudinal axis of waveguide 7 and the mechanical axis of rotation, the optical axis of waveguide 7 can be aligned with that of sensor waveguide 11. Adjusting the angle of the waveguide is equivalently a rotation about a second axis that is perpendicular to the mechanical axis of rotation. This can be seen in Figure 4. The movement of the angle position is done while maintaining the position of

Application/Control Number: 10/045,207

Art Unit: 1731

the end face (column 2, lines 44-56; column 4, lines 55-64). Therefore, there are two axes of rotation of waveguide 7, one about a longitudinal axis, and one perpendicular thereto, both intersecting at the fiber end.

Response to Arguments

Applicant's arguments filed August 30, 2004 have been fully considered and are persuasive. The prior art applied previously does not disclose or suggest a step of rotating an optical fiber about two axes that intersect at the end of the optical fiber. With respect to Green (US 6,470,120), the rotation of fibers is about eccentric axes, which impart a translational motion to the fiber end. The translational motion is designed to effect equivalent rotation of the fiber about the θx and θy axes. The fiber is not rotated about two axes that intersect at the fiber end. With respect to Jadrich (US 5,668,899), a lens is rotated through angles θx and θy to couple a beam to a fiber end. The fiber itself is not rotated. Therefore, all rejections presented previously have been withdrawn. However, a new grounds of rejection has been presented.

Allowable Subject Matter

Claim 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 4 is allowed.

The following is a statement of reasons for the indication of allowable subject matter:

The claims are allowable for providing three axes of rotation about the fiber end.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Hug whose telephone number is 571 272-1192. The examiner can normally be reached on Monday through Friday, 10:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571 272-1189. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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